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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,578	07/31/2006	Julie Baker	87407CPK	3055
	7590 01/08/200 DDAK COMPANY	EXAMINER		
PATENT LEGAL STAFF			MARTIN, LAURA E	
343 STATE STREET ROCHESTER, NY 14650-2201			ART UNIT	PAPER NUMBER
			2853	
			MAIL DATE	DELIVERY MODE
			01/08/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/597,578	BAKER ET AL.			
Office Action Summary	Examiner	Art Unit			
	LAURA E. MARTIN	2853			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>07 Mar</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on is/are: a) ☐ access that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is a specificant may not request that any objection to the company is	relection requirement. r. epted or b)□ objected to by the B				
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex-					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/31/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Information Disclosure Statement

Acknowledgement is made of the information disclosure statement (IDS) submitted on 31 July 2006. The submission is in compliance with the provisions of 37 CFR 1.97.

Claim Objections

Claims 2, 6, and 8-10 are objected to because of the following informalities: there are multiple dependant claims.

Claims 2-10 are objected to because of the following informalities: "A method as claimed in" lacks proper antecedent basis.

Claim 6 is objected to because of the following informalities: "a hydrophilic polymer" lacks proper antecedent basis.

Claim 8 is objected to because of the following informalities: "form" should be "from".

It is noted by the examiner that these corrections were made in the claims dated 7/31/06; however, the claims filed on 3/07/2008 contain these errors. It is assumed that the newest claims are the ones to be examined. Appropriate correction is required.

Specification

The abstract of the disclosure is objected to because it contains the word "comprising". Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haruta et al. (JP 58-136482 A).

Haruta et al. disclose the following claim limitations:

As per claim 1: an ink jet receiver comprising a voided polymer ink-receiving layer (figure 3, element 1); printing an image onto an ink jet receiver using a printer to generate a print and applying pressure and/or heat to the print and thereby improving the surface properties (constitution).

Haruta et al. do not specifically disclose loading the ink jet printer with an ink jet receiver; however, It would have been obvious to one of ordinary skill in the art at the time of the invention that if an image was formed onto a receiver by means of an ink jet printer, the receiver must be loaded into the printer.

As per claim 2: the application of pressure and/or heat to the print reduces the roughness and increases the gloss of the surface of the print (constitution – melting reduces roughness by allowing the surface to disperse evenly).

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As per claim 3: the voided polymer ink receiving layer is a foamed polymer ink receiving layer (the voids that form a porous layer would be equivocal to foam – foam is not defined in the claim language).

As per claim 9: the application of pressure and/or heat to the print is carried out using a fusing device. It would have been obvious to one of ordinary skill in the art at the time of the invention that if the top layer was melted, it would be fused together in some way. The device that causes this melting would be the fusing device.

As per claim 10: an ink jet print (purpose).

As per claim 11: use of a fusing device to improve the surface properties and/or image properties of an ink jet print formed on an ink jet receiver comprising a foamed polymer ink receiving layer by applying heat and/or pressure to the surface of the print (purpose/constitution). The voids that form a porous layer would be equivocal to foam – foam is not defined in the claim language. It would have been obvious to one of ordinary skill in the art at the time of the invention that if the top layer was melted, it would be fused together in some way. The device that causes this melting would be the fusing device.

Claims 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haruta et al. (JP 58-136482 A) in view of Iwasa et al. (US 2002/0012786 A1).

Haruta et al. disclose the following claim limitations:

The method of claim 1.

Haruta et al. do not disclose the following claim limitations:

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As per claim 4: the polymer is a hydrophilic polymer.

As per claim 5: the polymer is selected from PVA, PEO, PVP, and gelatin.

As per claim 6: the receiver is obtainable by coating a support with a solution comprising a hydrophilic polymer and a blowing agent; and either, prior to or after the step of coating the support, interacting with said solution, to cause the blowing agent to generate gas bubbles within the solution causing foaming of said hydrophilic polymer.

As per claim 7: the step of interacting with the solution is performed after the coating of the solution onto the support and comprises applying heat to said solution.

lwasa et al. disclose the following claim limitations:

As per claim 4: the polymer is a hydrophilic polymer [0012].

As per claim 5: the polymer is selected from PVA, PEO, PVP, and gelatin [0018].

As per claim 6: the receiver is obtainable by coating a support with a solution comprising a hydrophilic polymer and a blowing agent; and either, prior to or after the step of coating the support, interacting with said solution, to cause the blowing agent to generate gas bubbles within the solution causing foaming of said hydrophilic polymer [0053]-[0054] (foaming agent = blowing agent).

As per claim 7: the step of interacting with the solution is performed after the coating of the solution onto the support and comprises applying heat to said solution [0071].

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method taught by Haruta et al. with the disclosure of Iwasa et al. in order to provide higher quality images through faster ink drying.

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As per claim 8: Haruta et al. as modified discloses the claimed invention except for the weight of a blowing agent is about 10% to about 60%. It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the amount of the blowing agent in the ink composition, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAURA E. MARTIN whose telephone number is (571)272-2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. E. M./ Examiner, Art Unit 2853

Laura E. Martin

/Manish S. Shah/ Primary Examiner, Art Unit 2853